

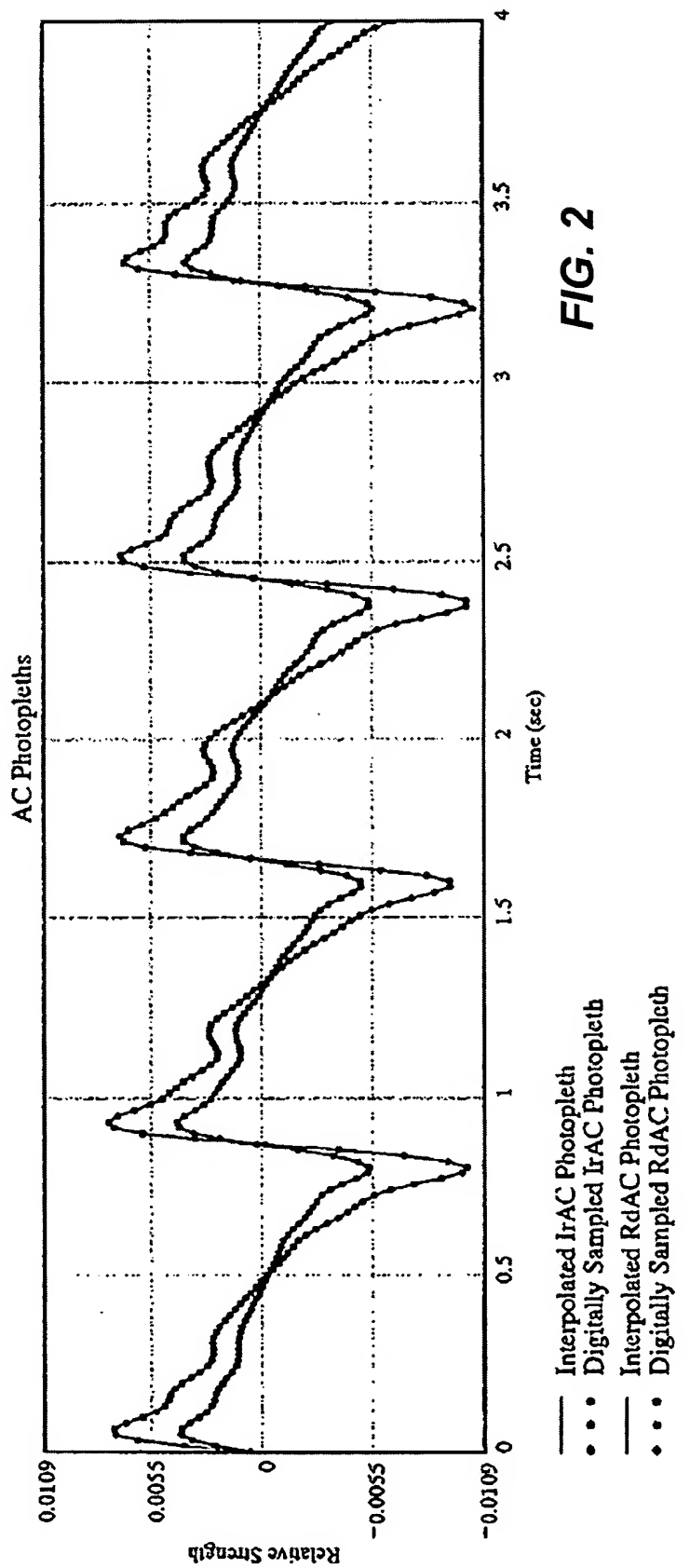
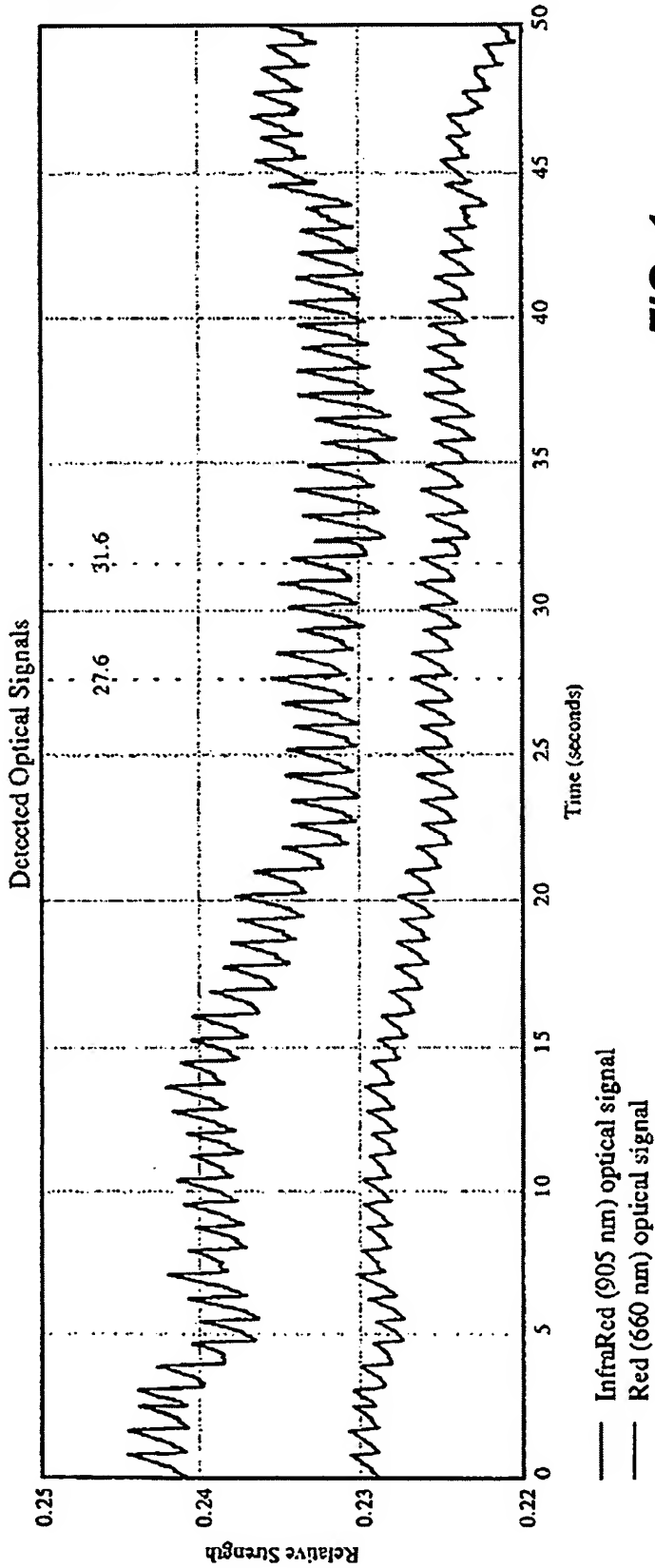


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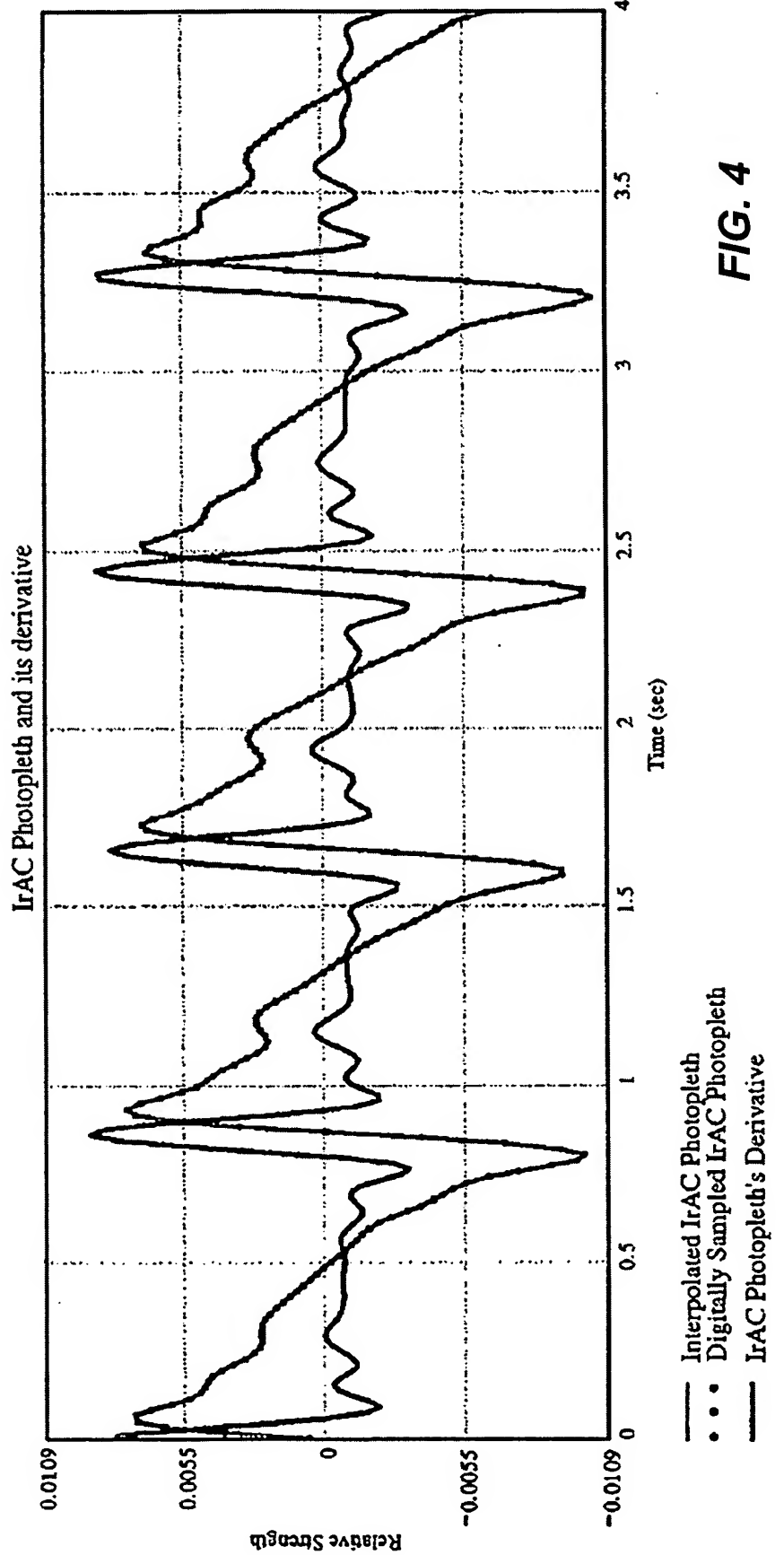
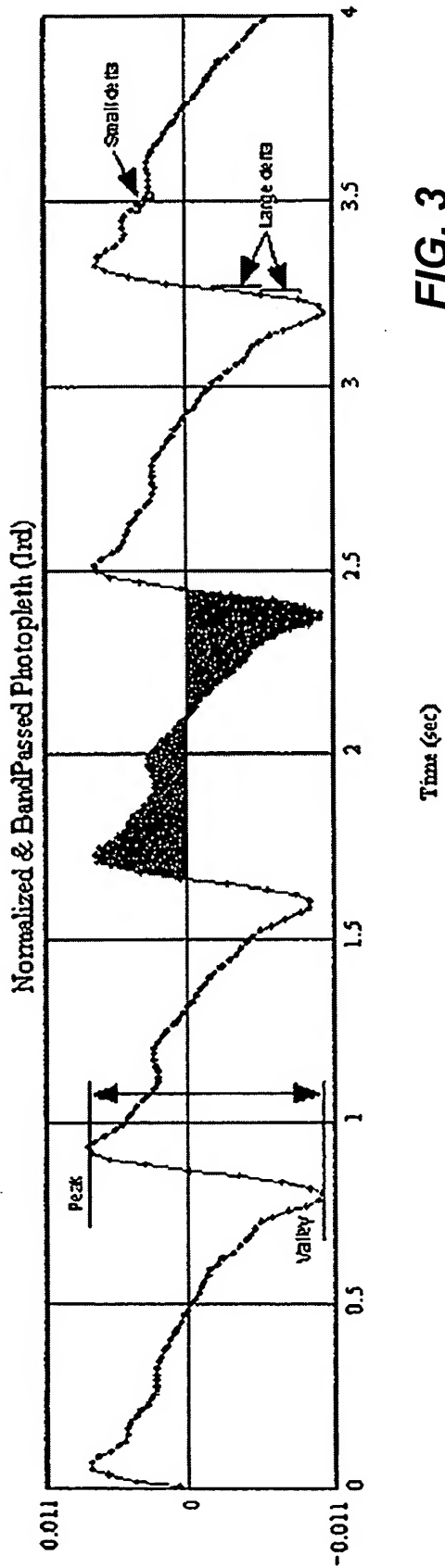


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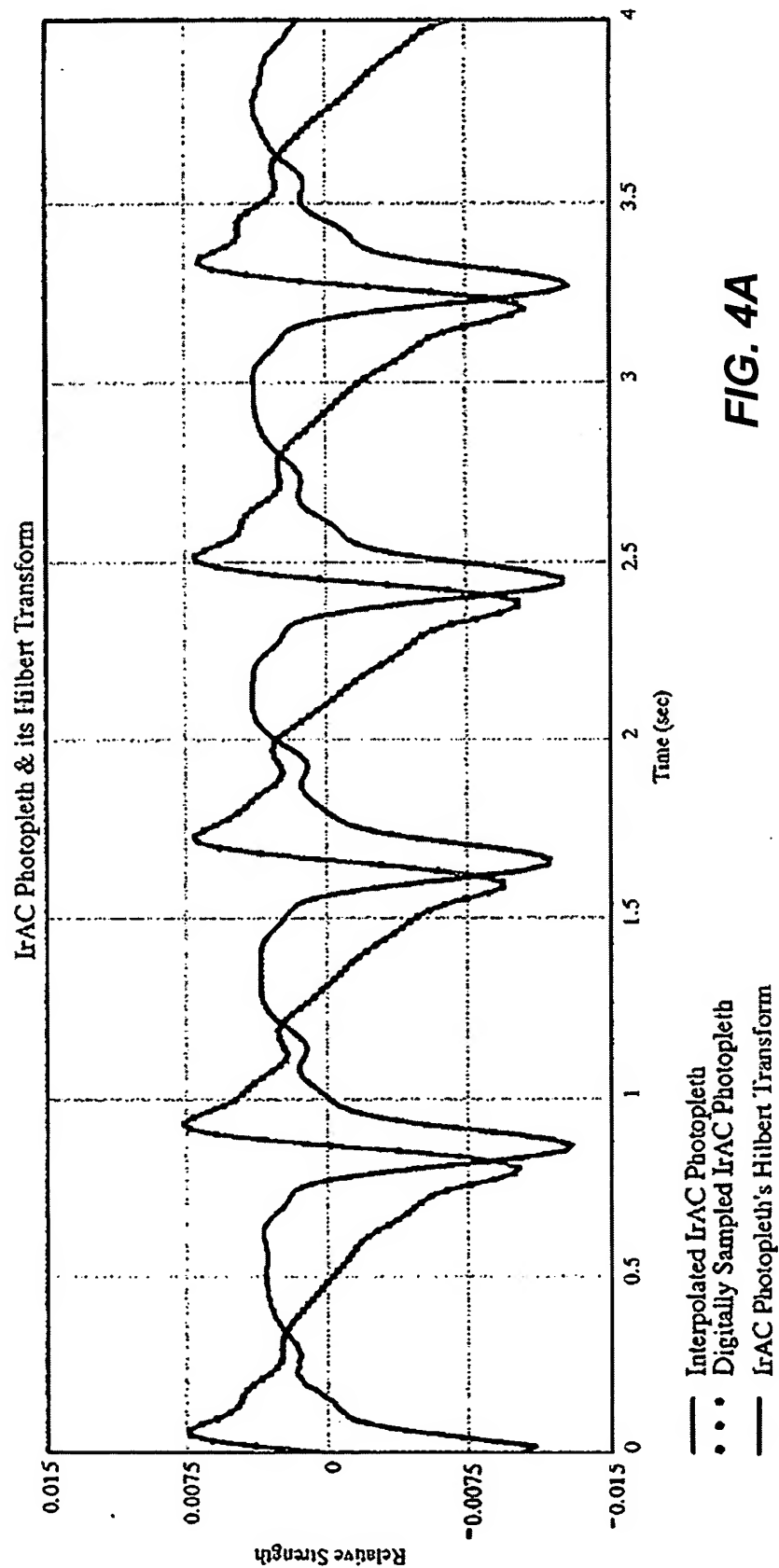


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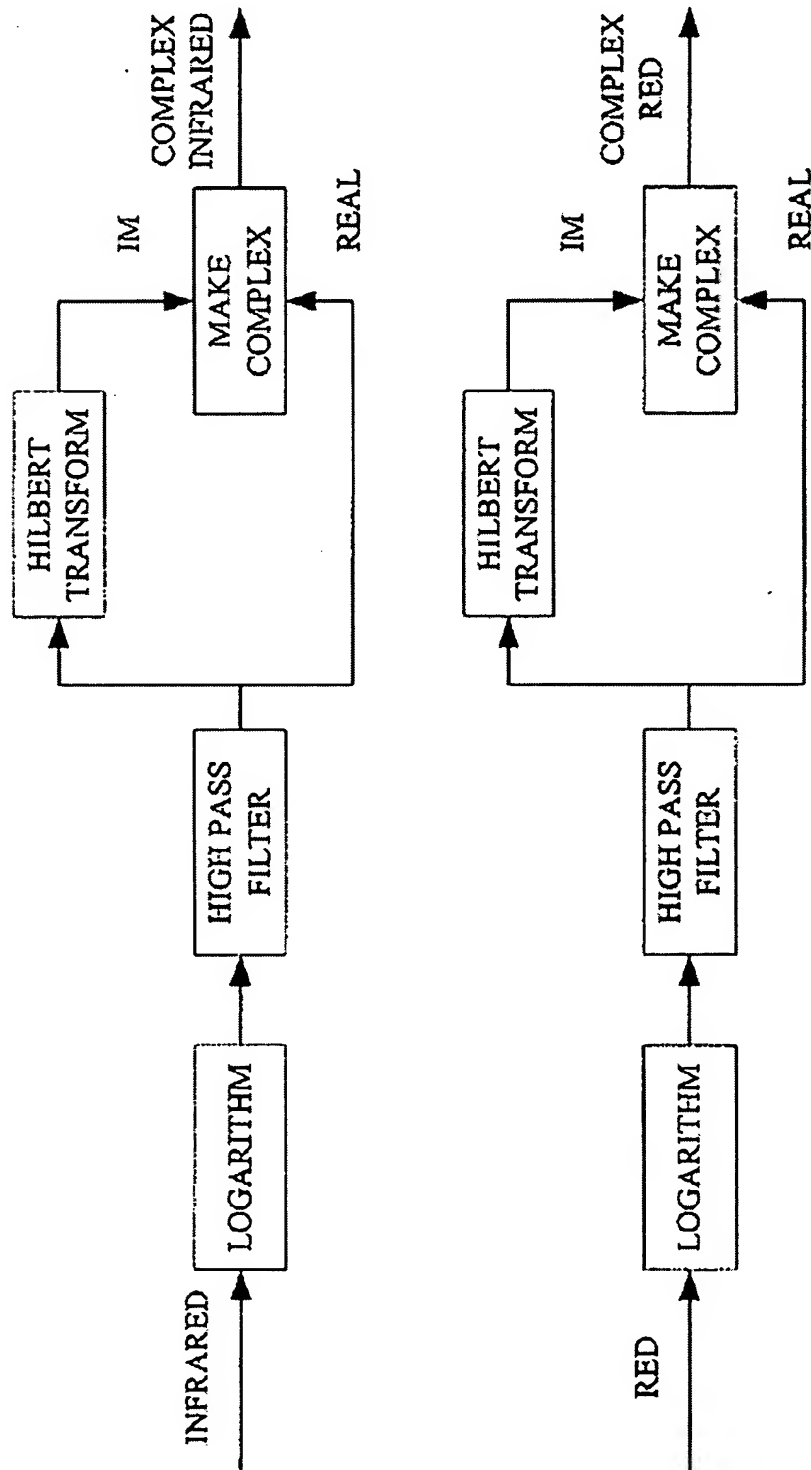


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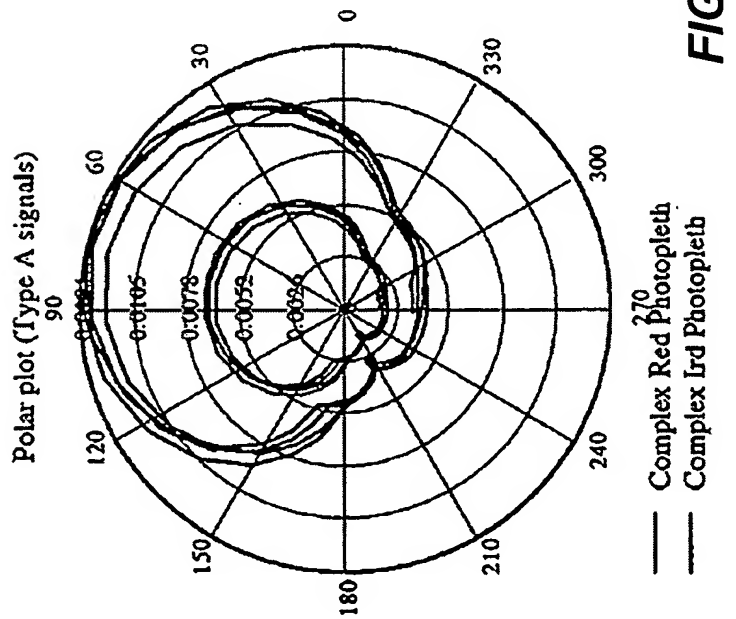
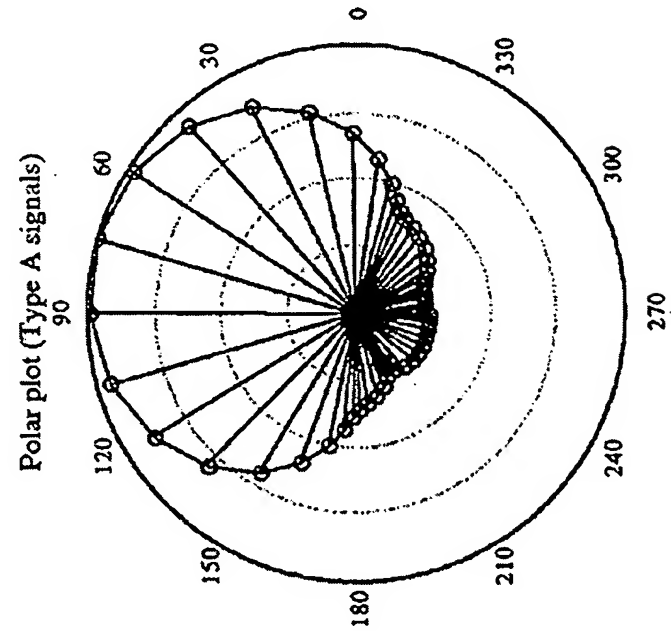
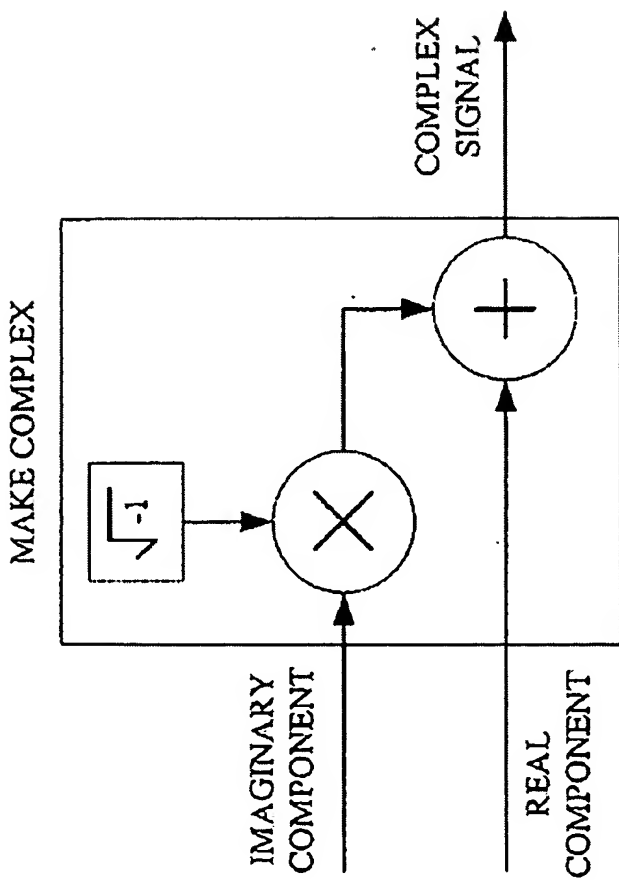
**FIG. 5**

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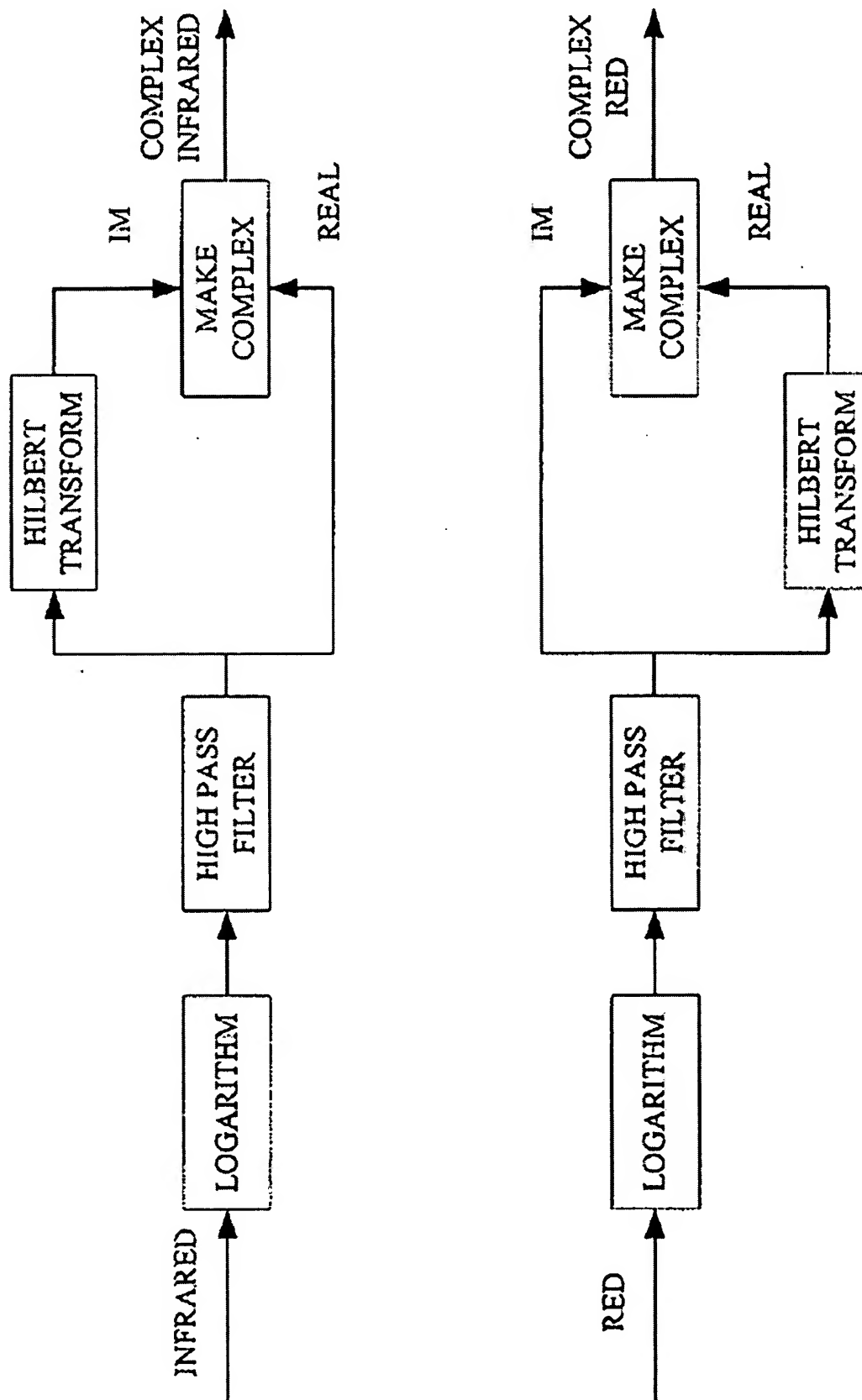


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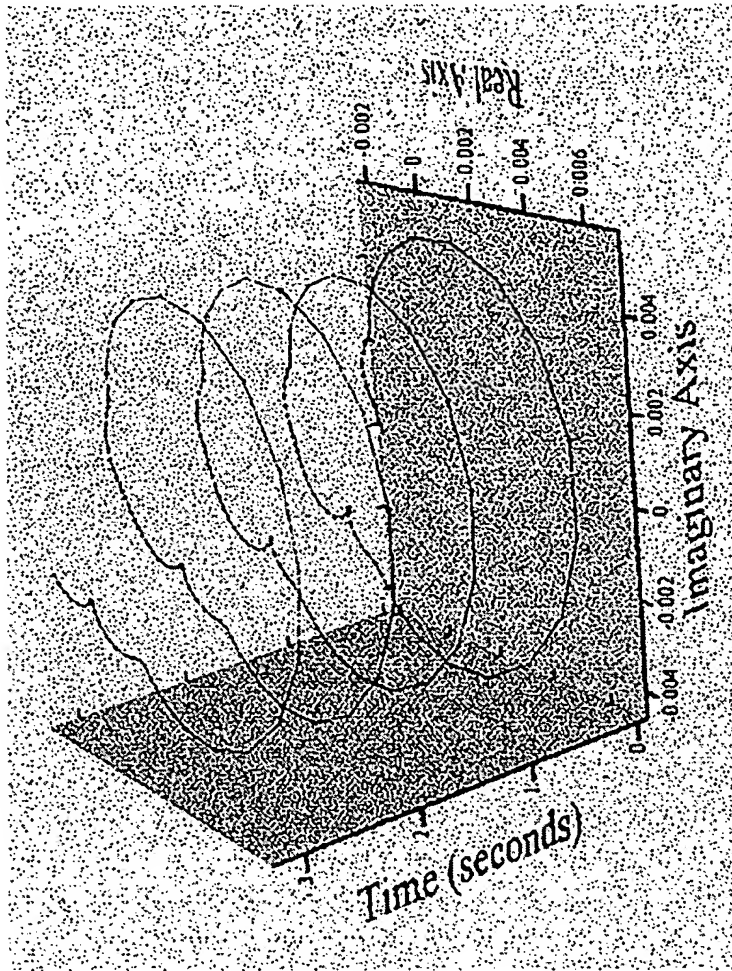
**FIG. 8**

**SYSTEMS AND METHODS FOR DETERMINING BLOOD OXYGEN SATURATION VALUES USING COMPLEX NUMBER ENCODING**

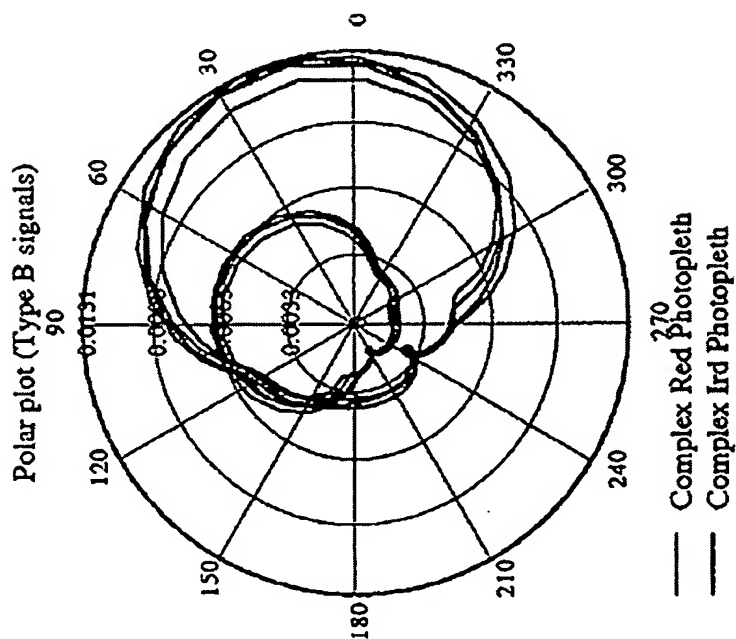
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**FIG. 10**



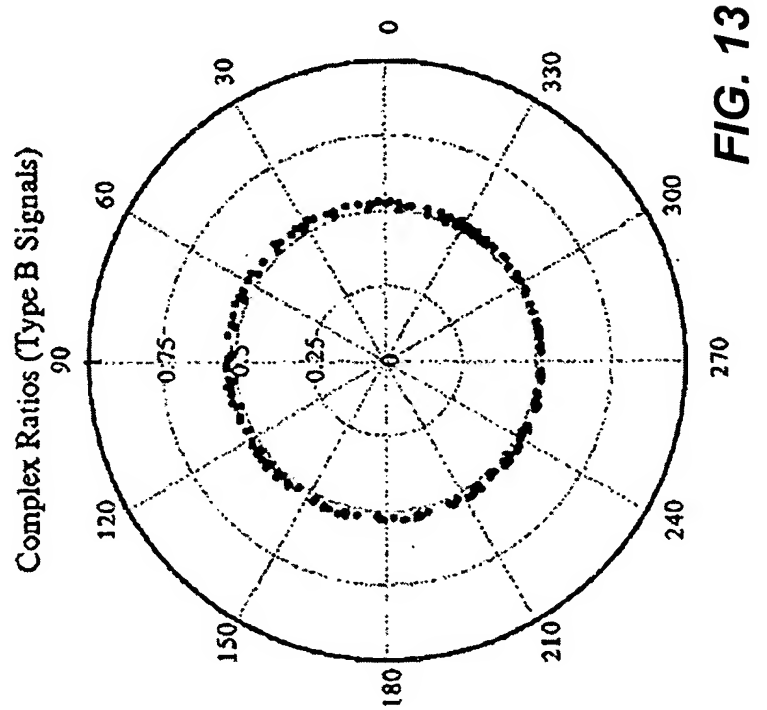
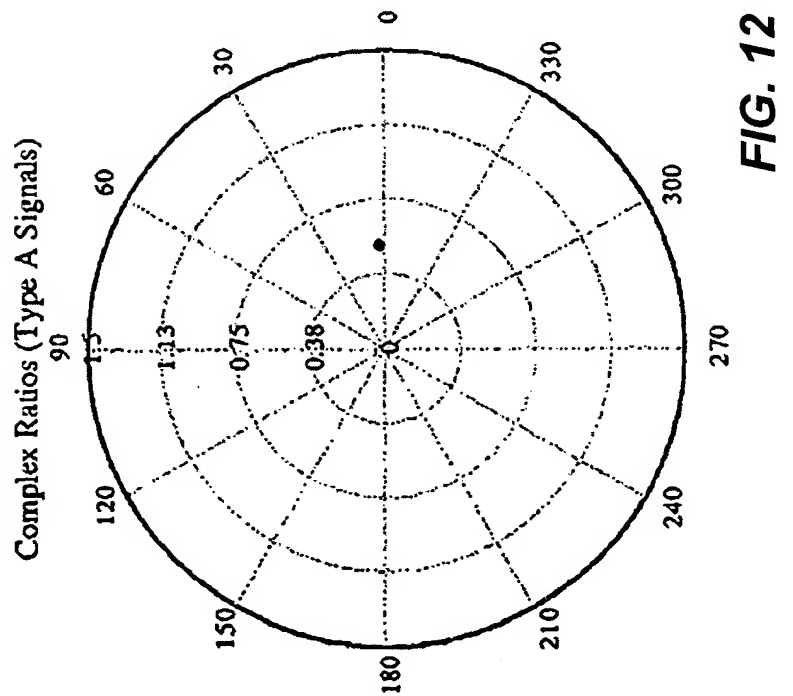
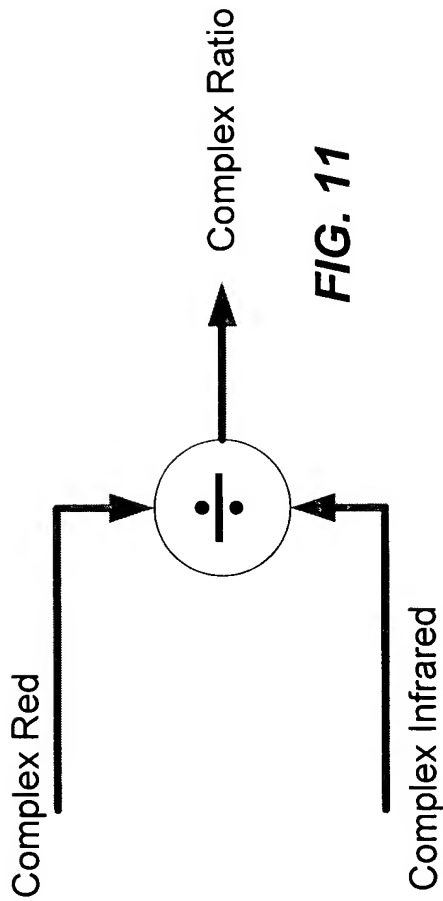
**FIG. 9**

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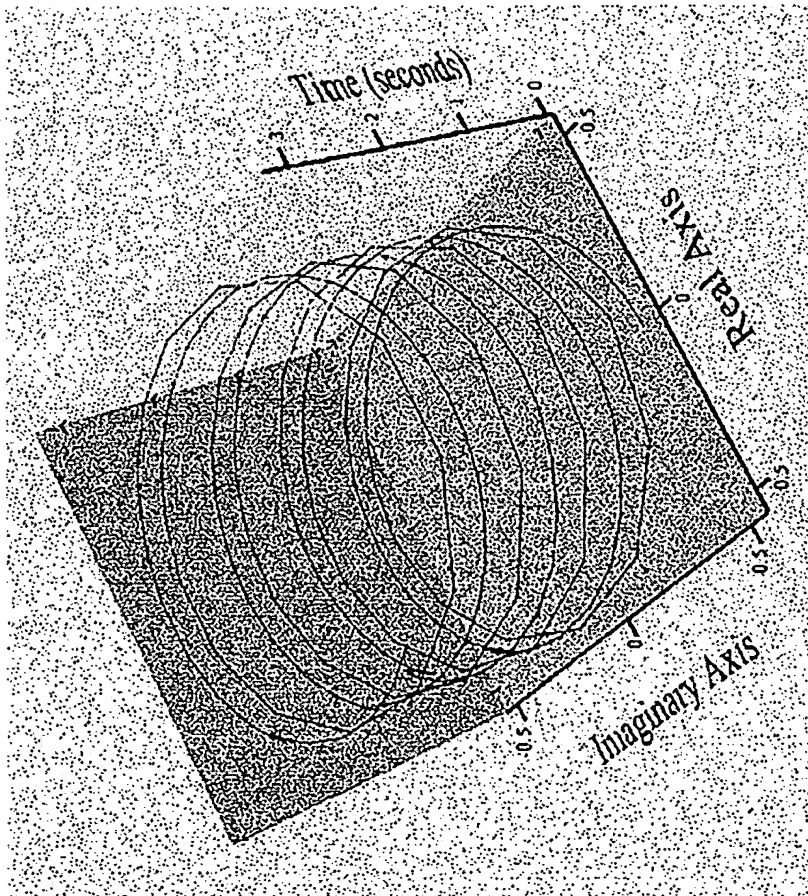


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**FIG. 14**

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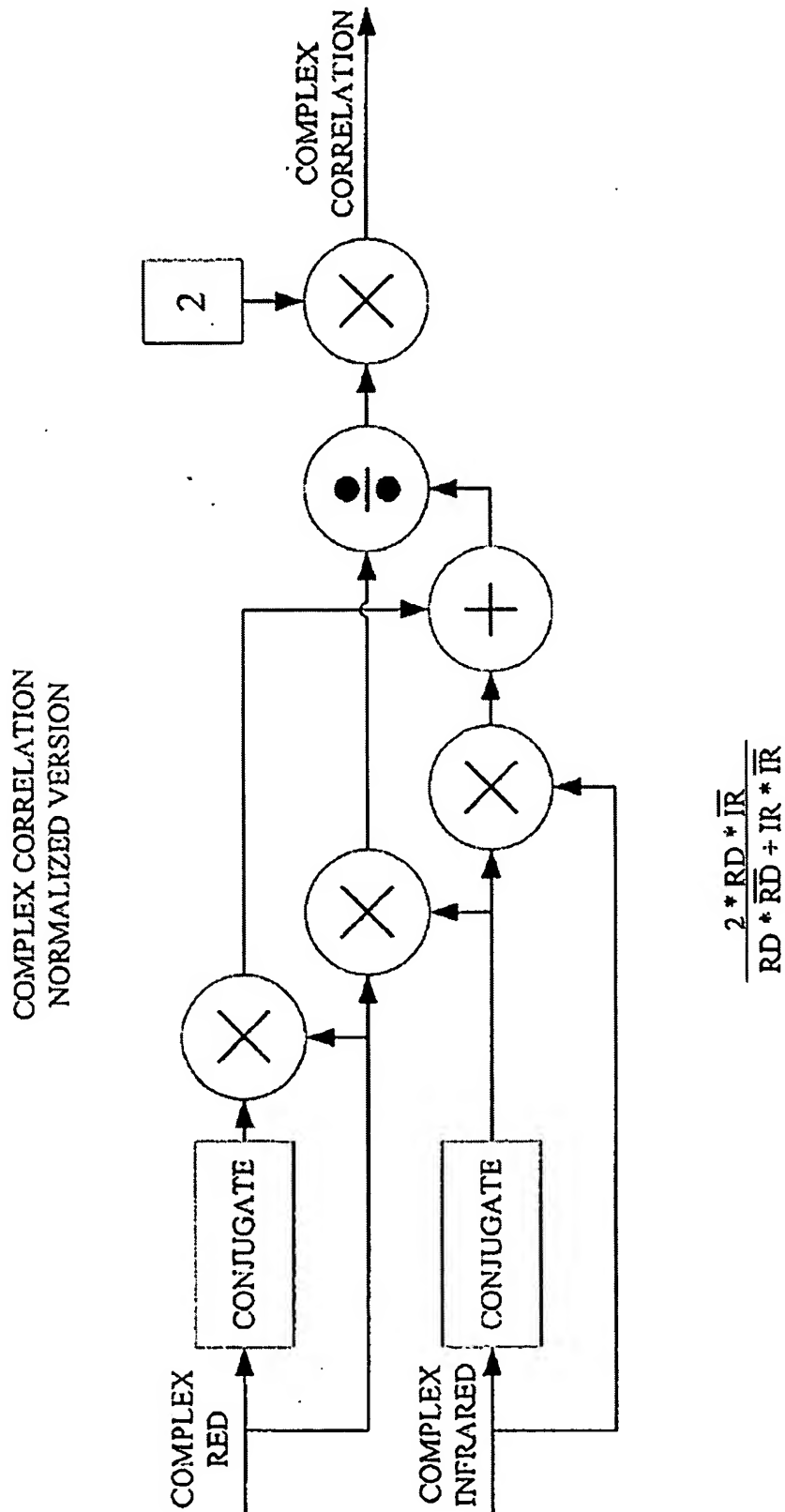


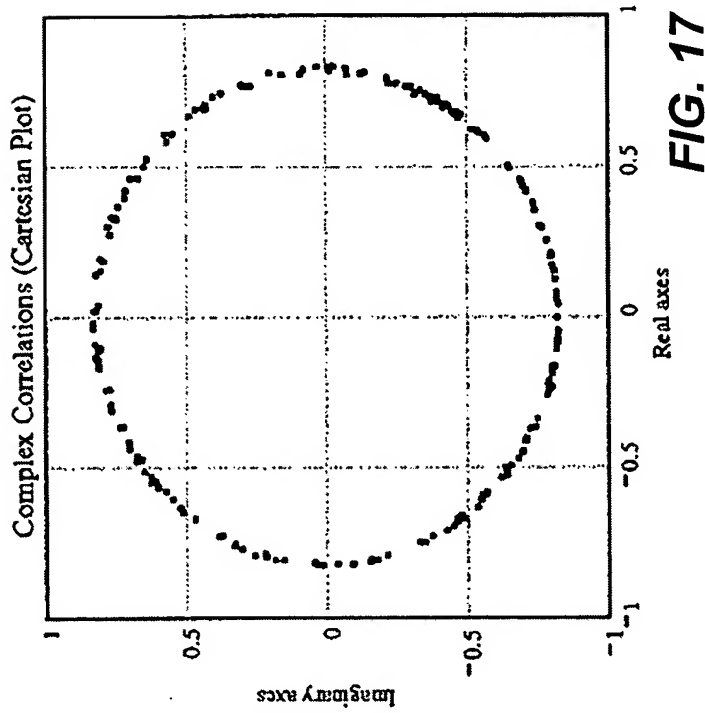
FIG. 15

**SYSTEMS AND METHODS FOR DETERMINING BLOOD OXYGEN SATURATION VALUES USING COMPLEX NUMBER ENCODING**

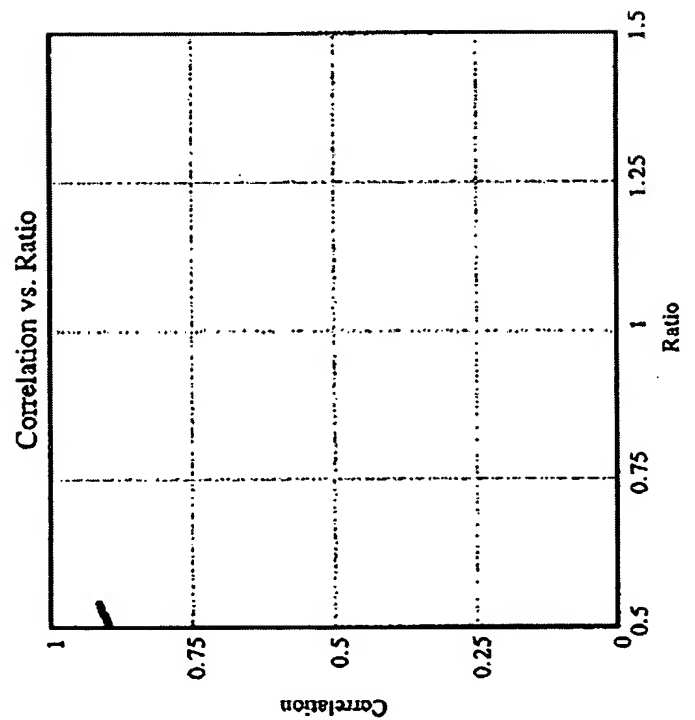
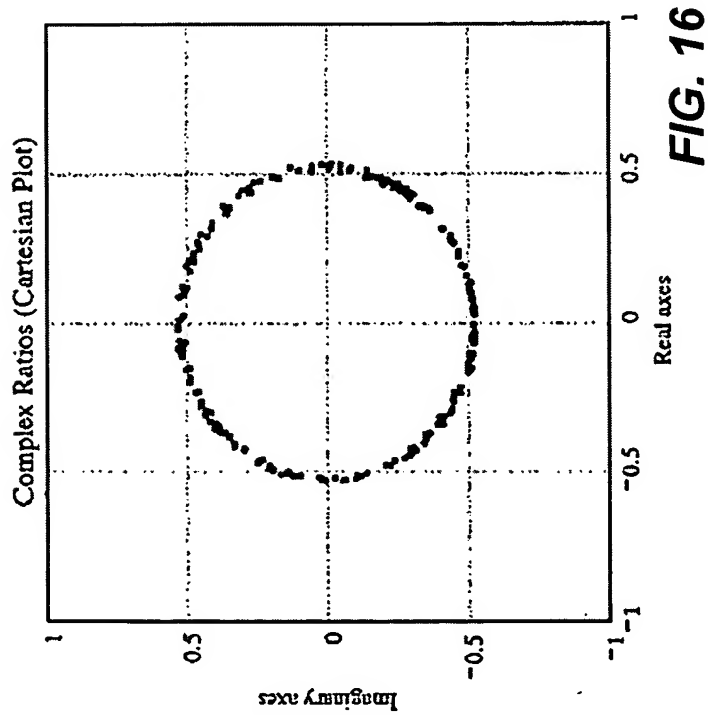
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**FIG. 18**

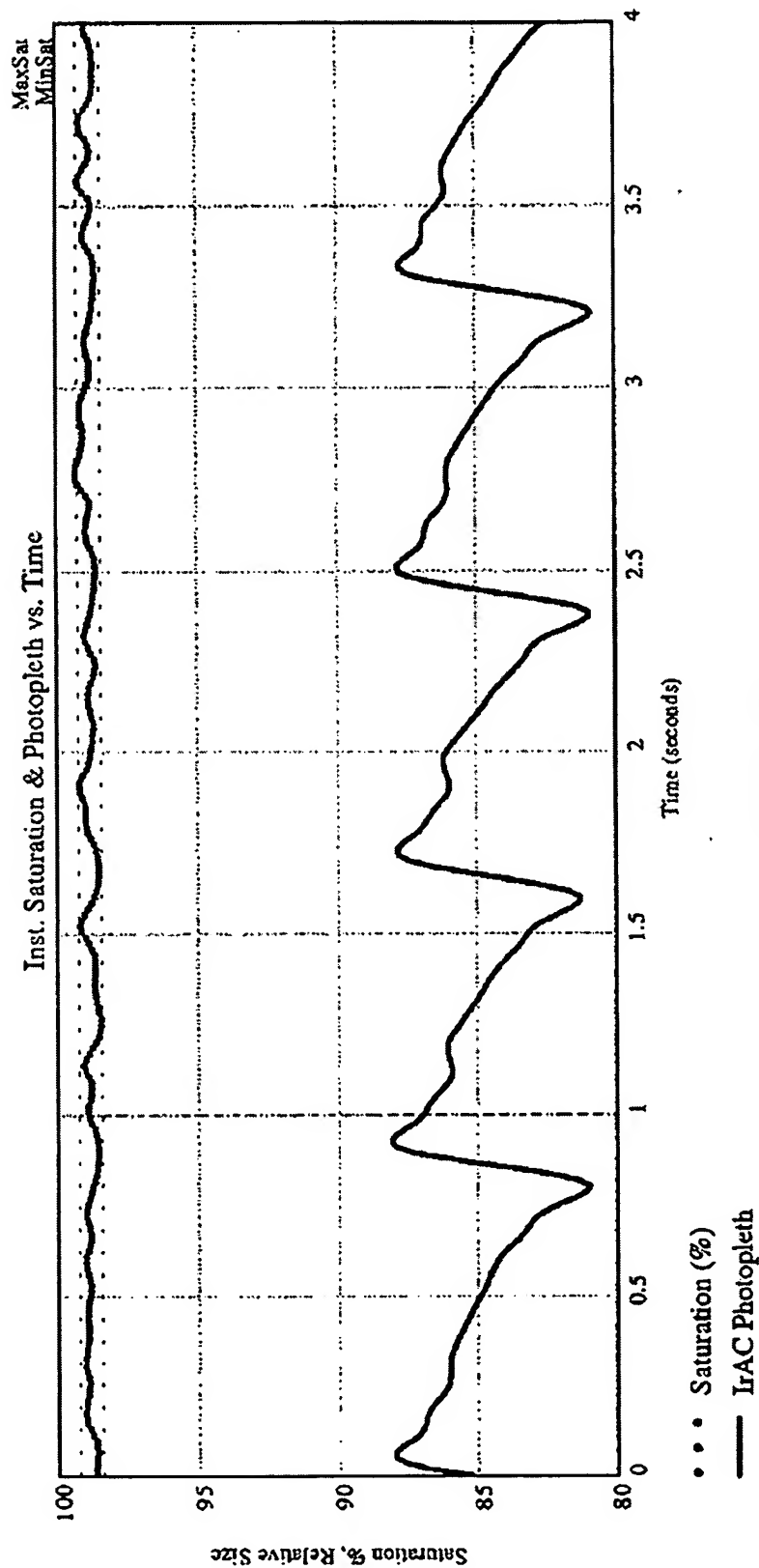


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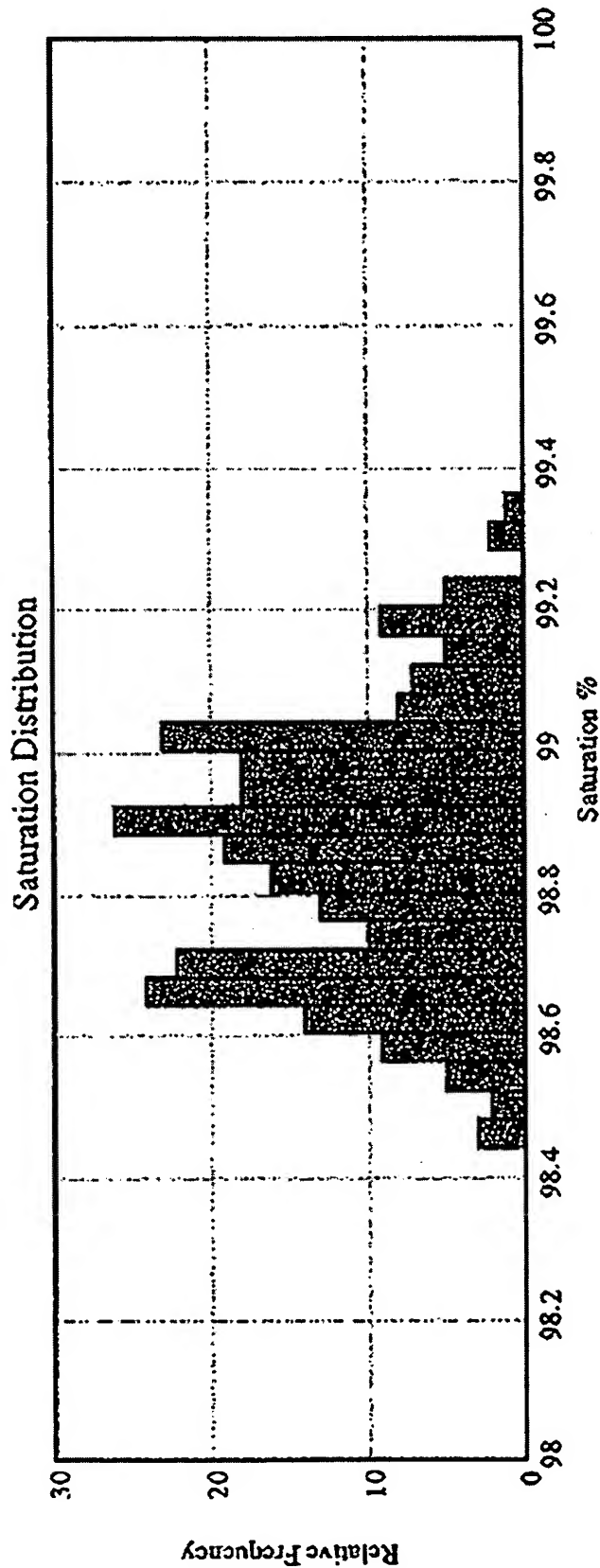
**FIG. 19**

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Standard Deviation

StdError = 0.18 %

Mean Satuarion Value

AverageSat = 98.9 %

Maximum Deviation from the mean

$\Delta$ Sat = 0.47 %

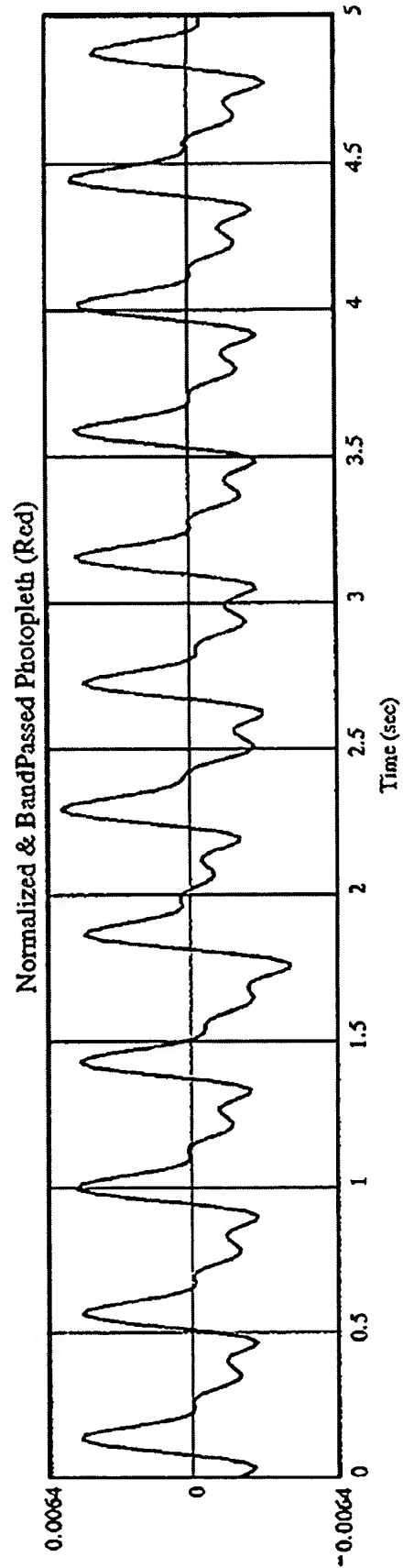
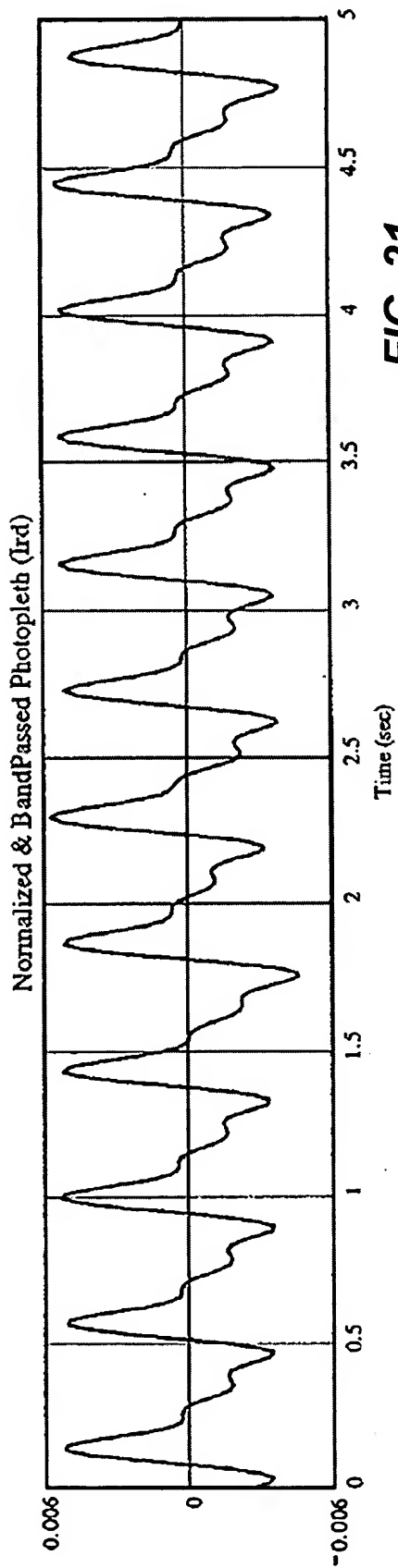
FIG. 20

**SYSTEMS AND METHODS FOR DETERMINING BLOOD OXYGEN SATURATION VALUES USING COMPLEX NUMBER ENCODING**

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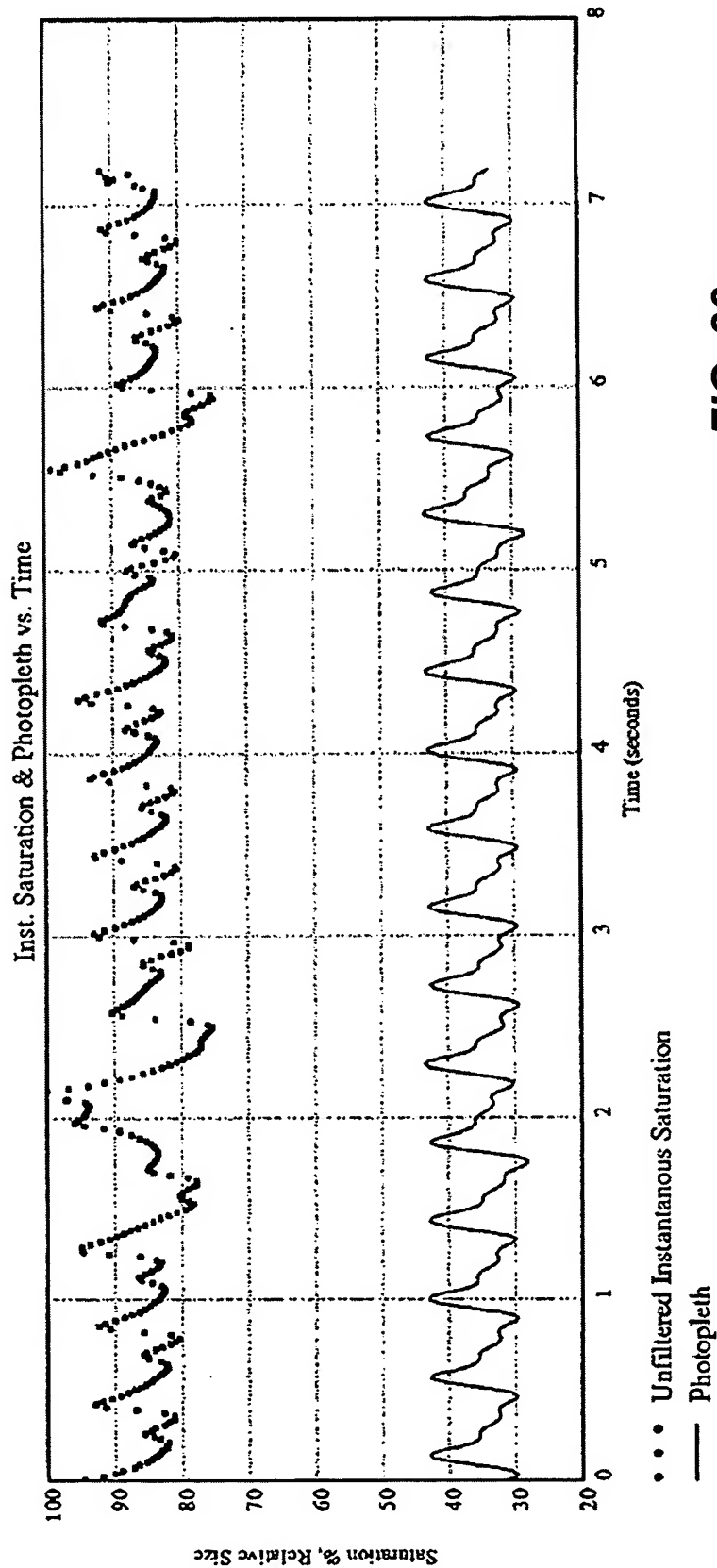


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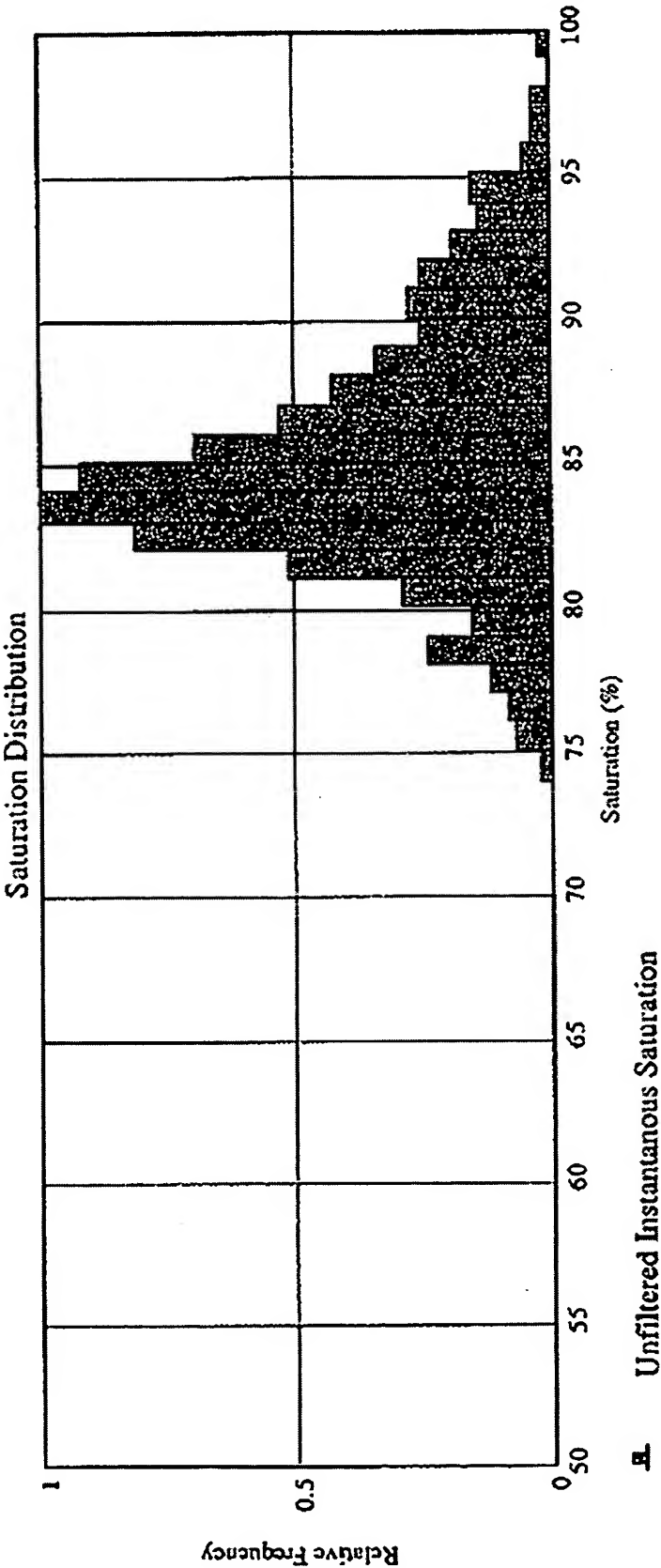


FIG. 24

Standard Deviation	StdError = 4.5 %
Mean Saturation Value	AverageSat = 85.3 %
Maximum Deviation from the mean	ΔSat = 25.13 %
Mode at 83.5%	

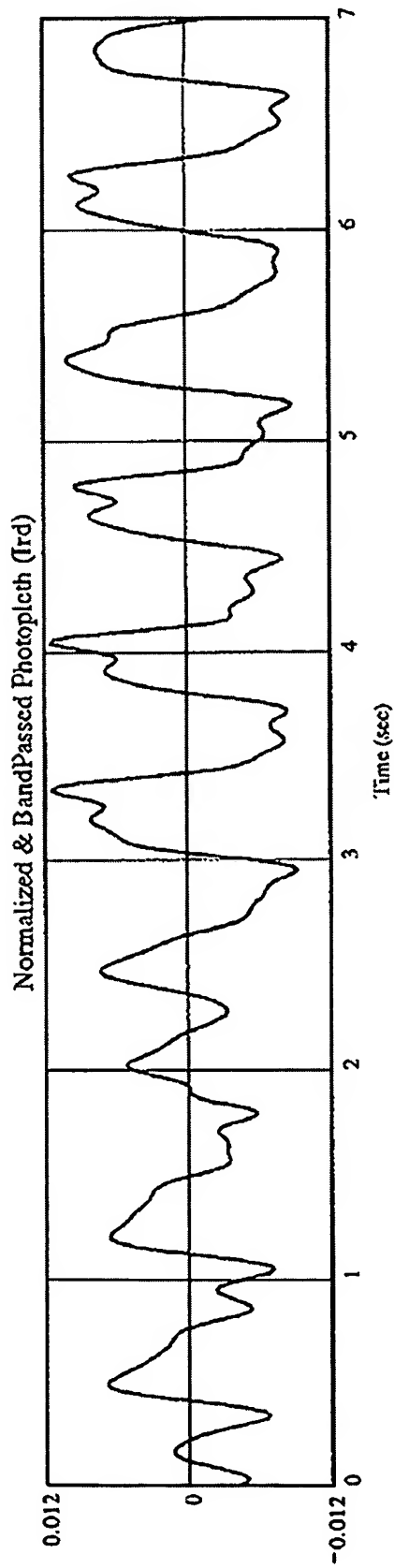


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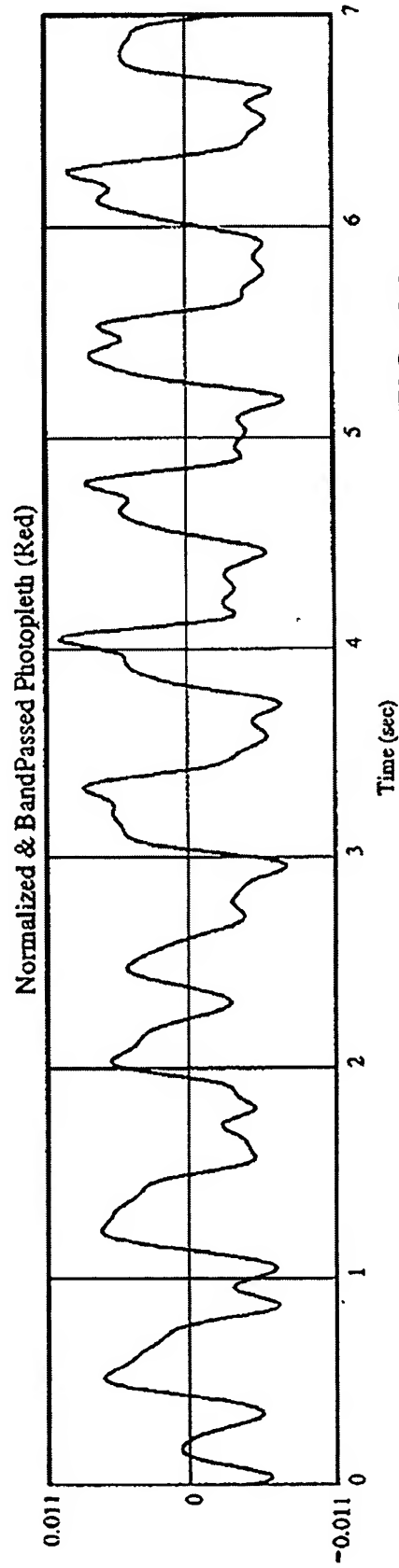
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**FIG. 25**



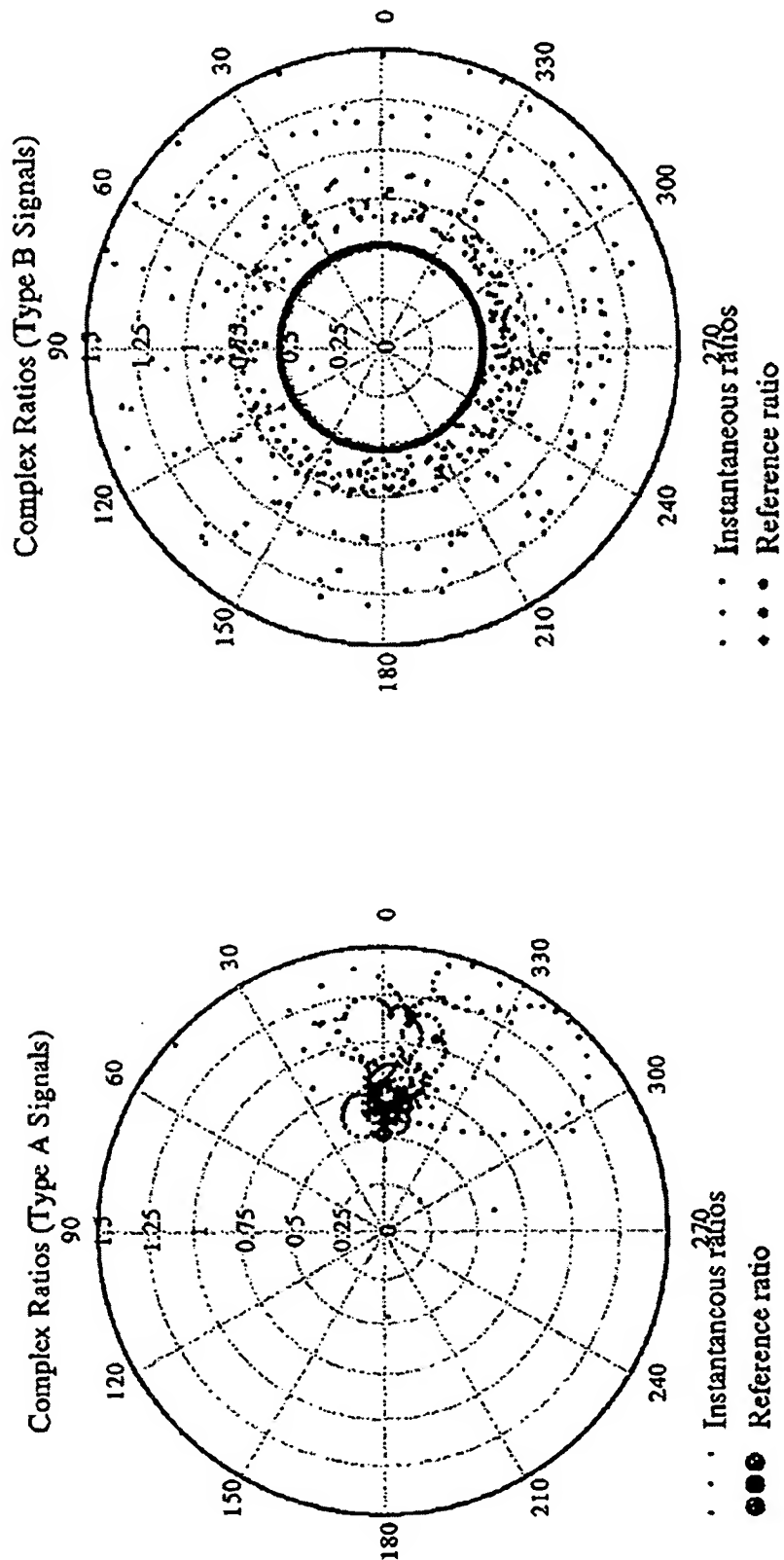
**FIG. 26**

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**FIG. 27**

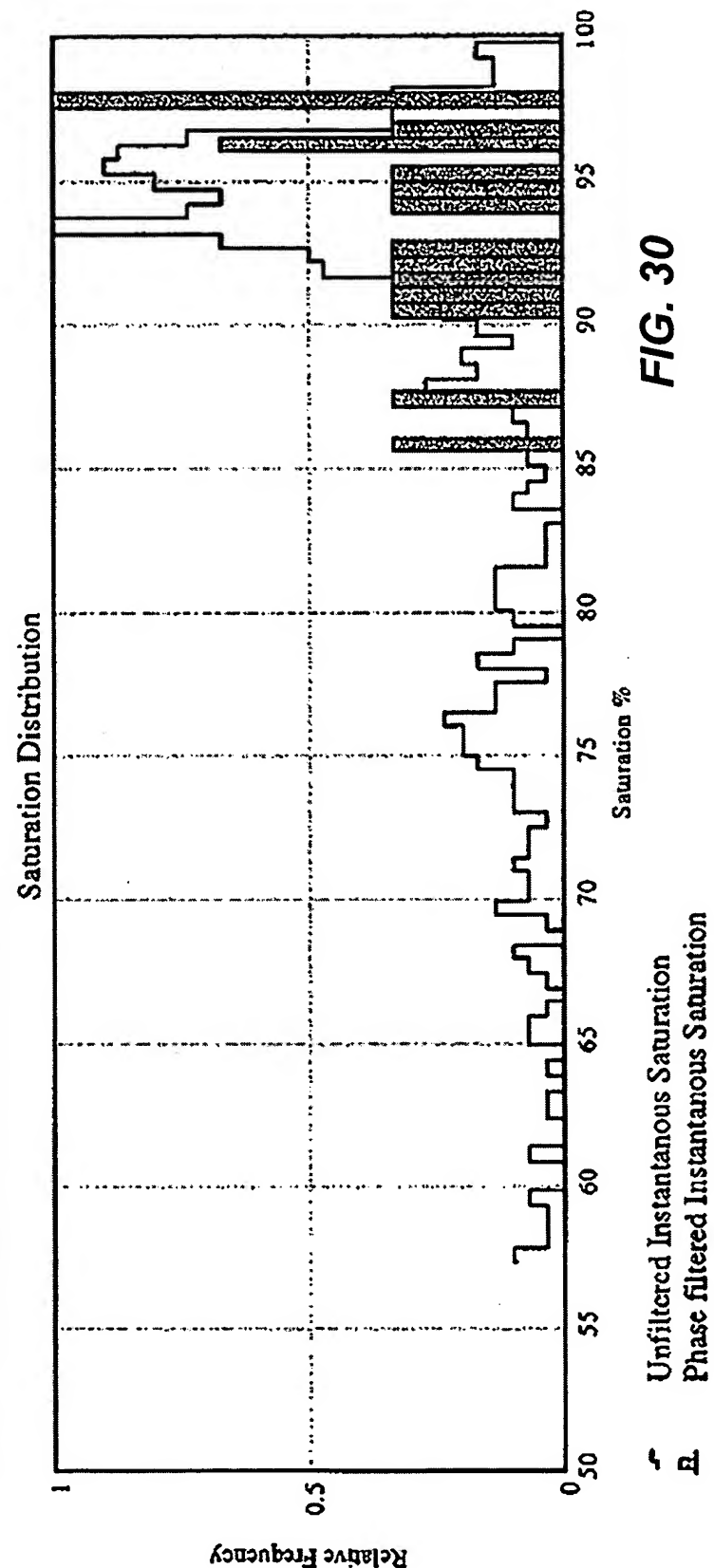
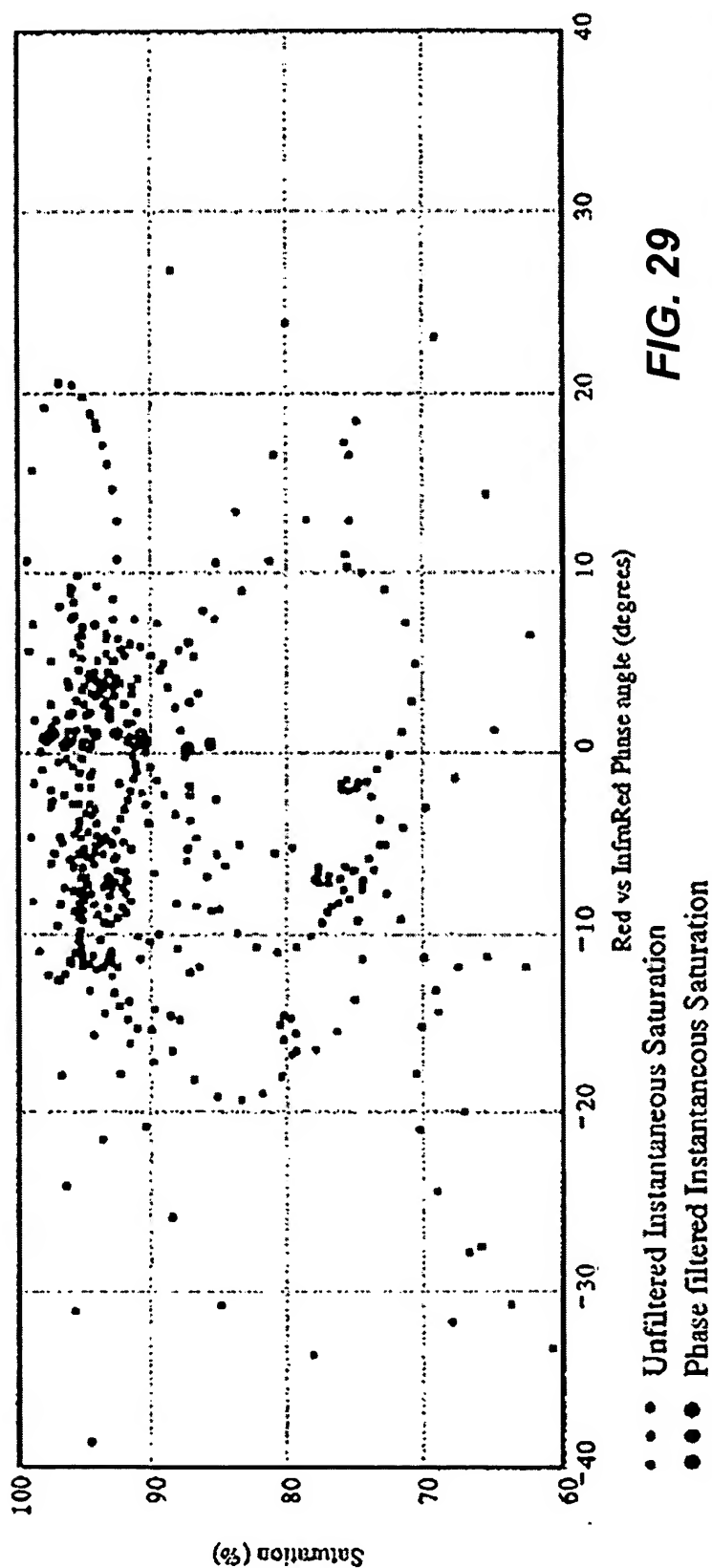
**FIG. 28**

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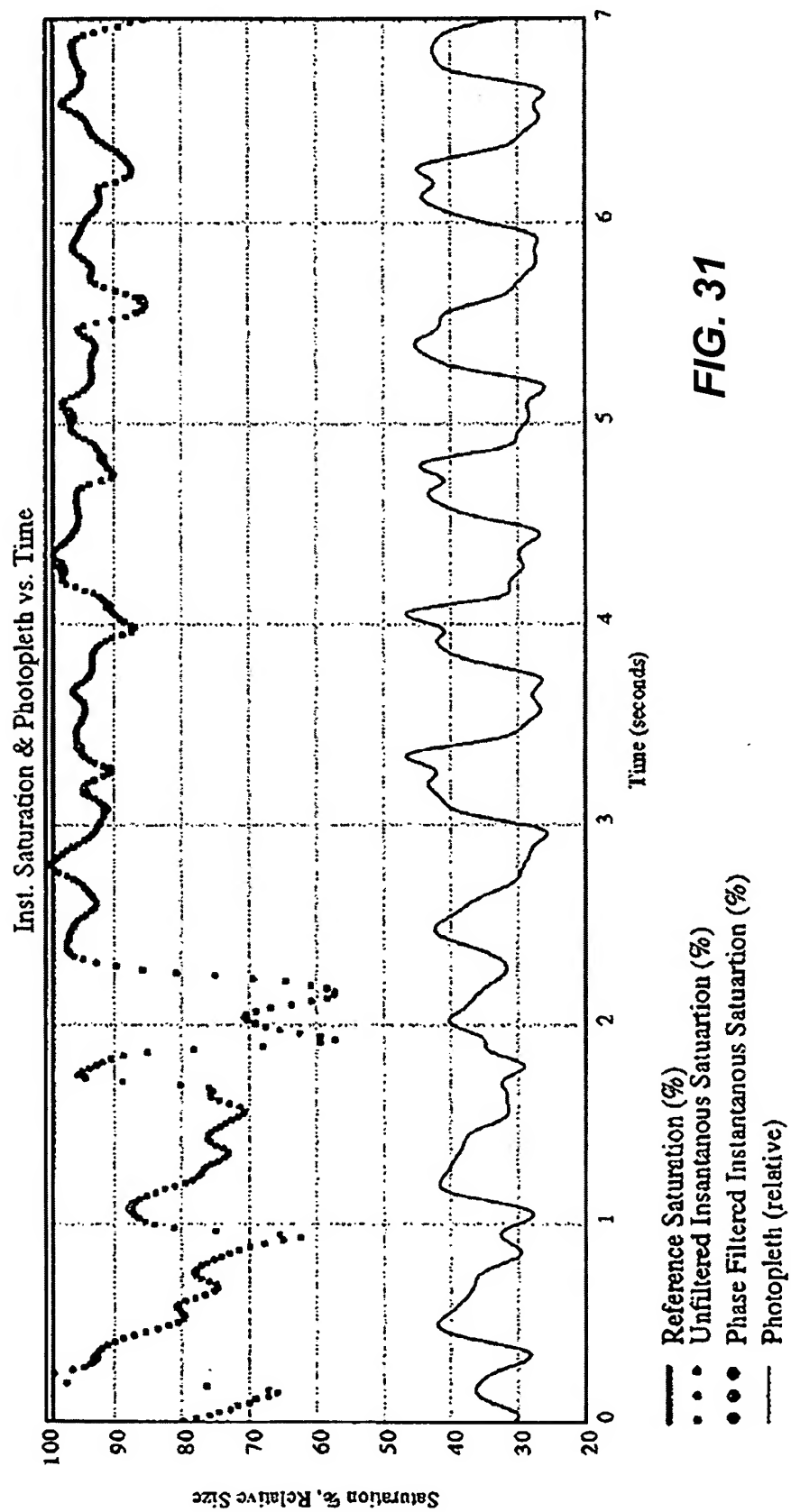


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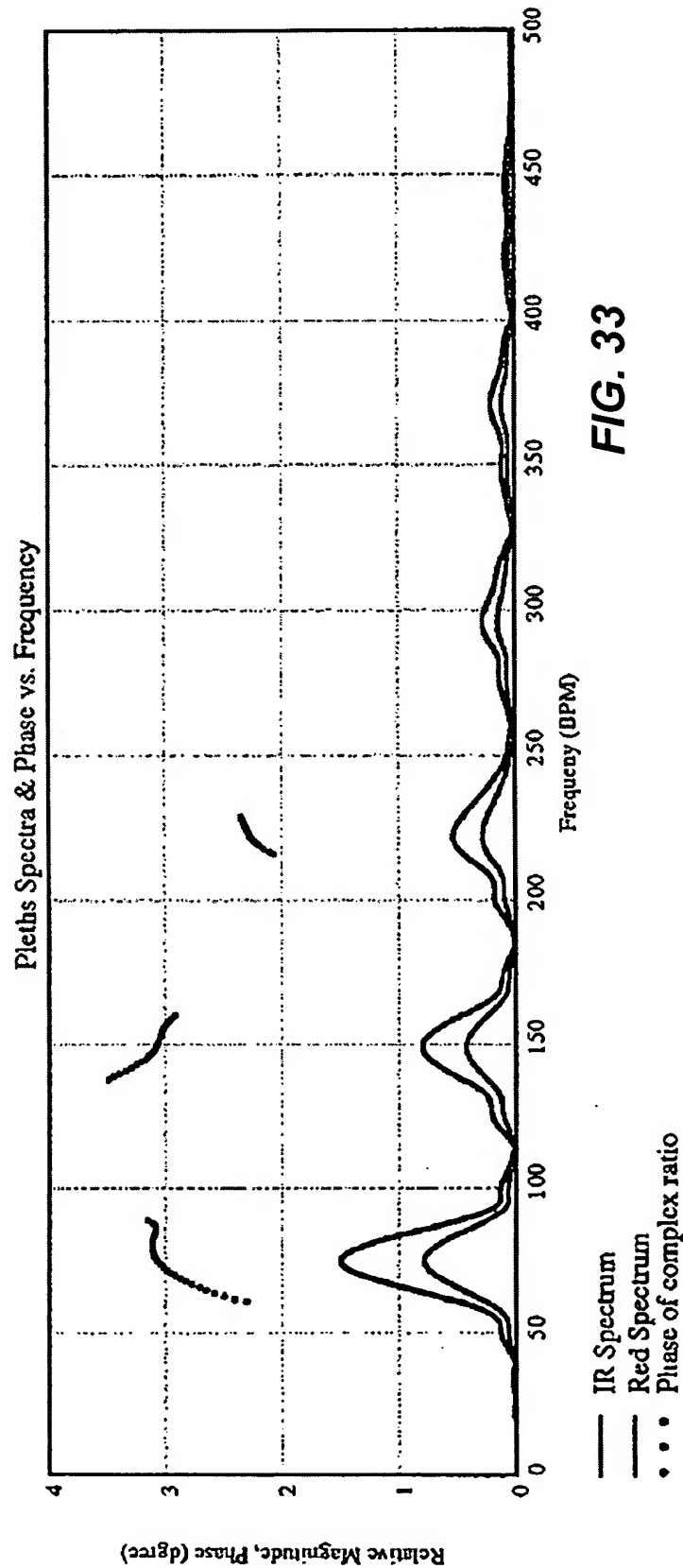
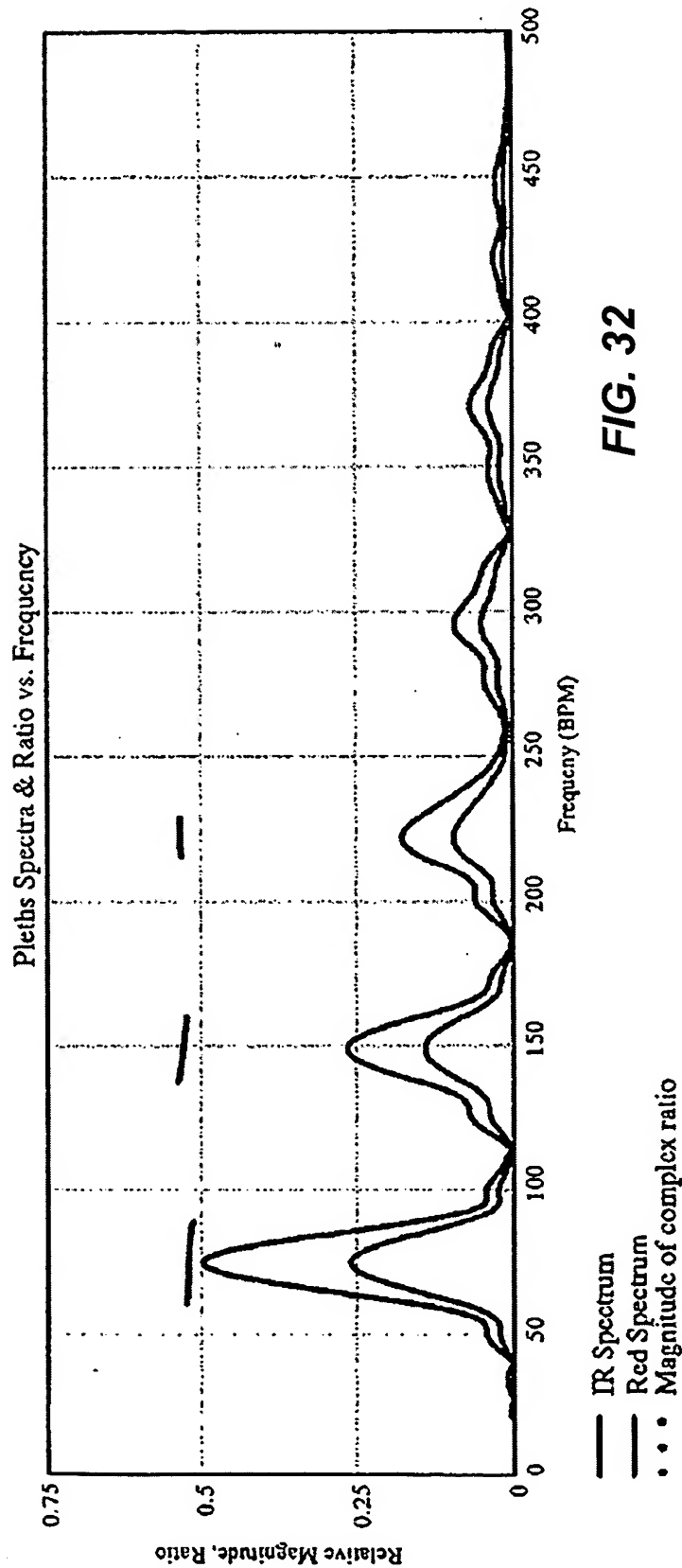


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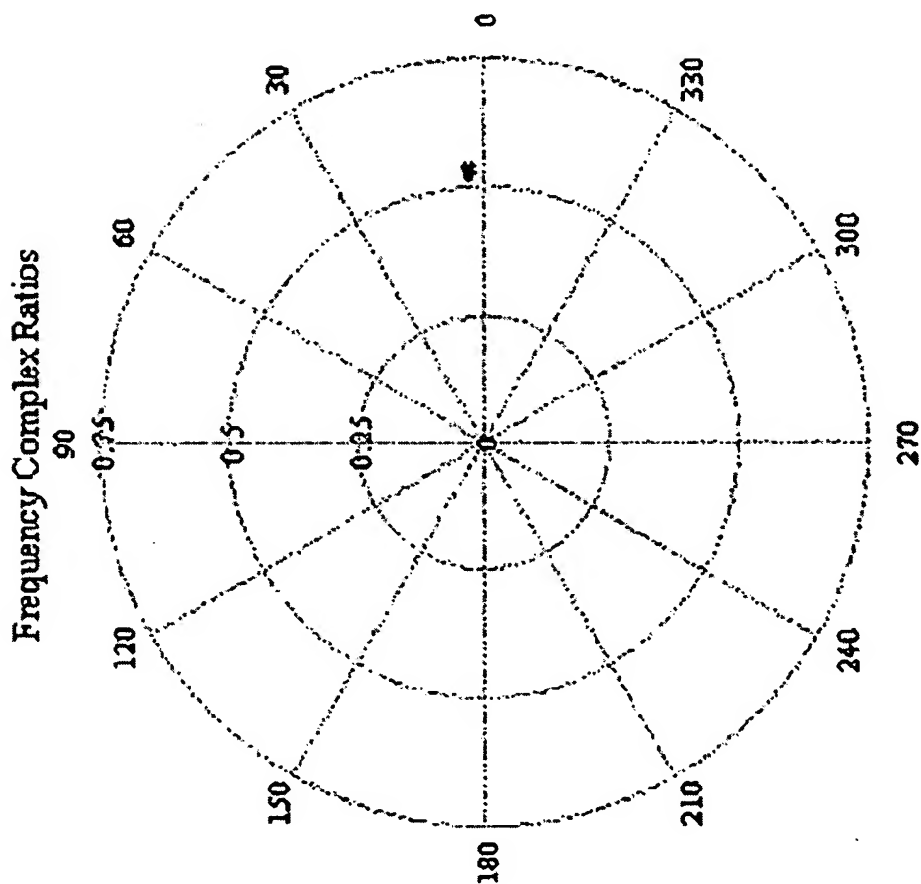


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**FIG. 34**

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